Moseley

Rincon

Rincon Series Quick Start Guide

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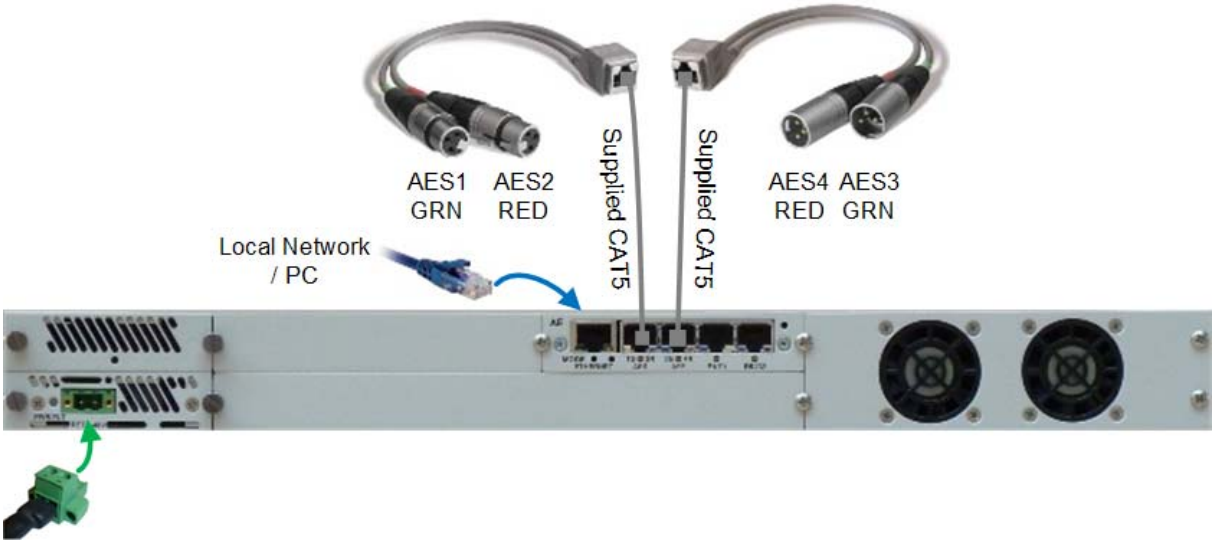
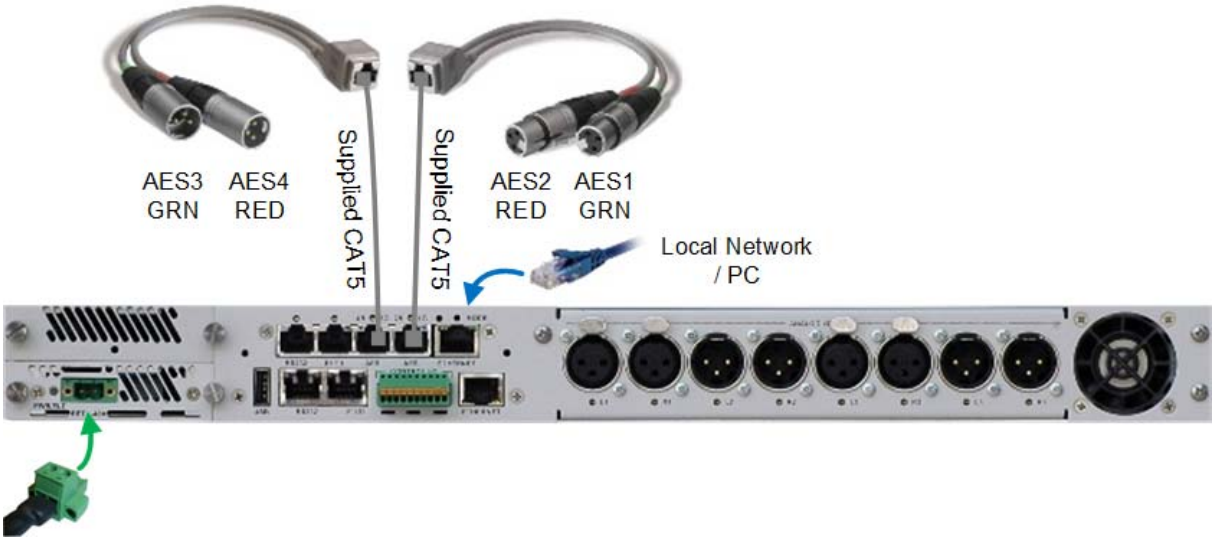
1. Quick Start Guide

We highly recommended that you review this manual before you install the Rincon. The information here is only a summary. We also recommend that you test your system on the bench back-to-back before deploying the equipment to remote locations. A small, inexpensive gigabit Ethernet switch or router is very useful in this process.

1.1 Quick Start Hardware Overview



Rincon100 & Rincon200



Rincon300 & Rincon4xx

Figure 1-1, Quick Start Hardware Overview

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1.2 Quick Start Software Overview

The Rincon Web Interface can be accessed through a computer connection. This section describes how to setup the initial Rincon configuration via the Web Interface.

The following items are needed:

1) Power supply (-48V DC @ 1 Amp) **OR** Desktop AC/DC power supply and power cable

2) Computer with networking capability, consisting of either: a laptop computer with Windows 98/2000/XP/Vista/7 operating system, an Ethernet card with any necessary adapters and a CAT5 Ethernet regular or crossover cable or a networked computer with Windows 98/2000/XP/Vista/7 operating system and an additional Ethernet cable providing access to the network. Other operating systems may be used, but Moseley has not tested them with the Rincon.

3) Web Browser program: Internet Explorer 5.5 (or later), Mozilla Firefox 1.0.6 (or later) . Other browser may be used, but Moseley has not tested them with the Rincon.

4) Appropriate Ethernet cables, and optionally, a 4- to 8-port Ethernet switch or router.

1.2.1 PC Network Configuration

The Web Interface can be accessed by connecting a CAT5 patch cable between the Rincon rear-panel Ethernet port and a PC. The PC's network interface must be configured to an open IP address within the same subnet. For the default Moseley configuration, the IP address of the PC should be 192.168.1.mm (where mm=a value in the range 2-99). For additional instructions on adding an IP address on your PC, please review http://www.itsyourip.com/networking/how-to-add-multiple-ip-address-in-windows-2000xp2003/.

1.3 Rincon Configuration

The example provided here sets up a single AES, Linear-24-bit, 48kHz-sample-rate end-to-end TCP/IP connection.

1.3.1 Default Network Settings

The system is configured and tested at the factory using these default values:

Table 1-1, Default Network Settings

Parameter	Value
IP Address	192.168.1.nnn
Netmask	255.255.255.0
Gateway	192.168.1.1

Where: nn=a value in the range 100-254. The IP address is indicated on the rear panel as shown in the following illustration. If it is not shown on the rear panel, the default IP address is 192.168.1.100. On older units the default IP address was 192.168.1.1.

After configuring the PC network interface, launch a web browser and enter the default URL as specified on the rear panel in the address bar of the browser to access the unit's Web Interface, e.g. http://192.168.1.100/.

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1.3.2 Default User Name & Password

A dialog box will request a user name and password. The default values are:

Table 1-2, Default User Name & Password

User Name	Password
admin	welcome

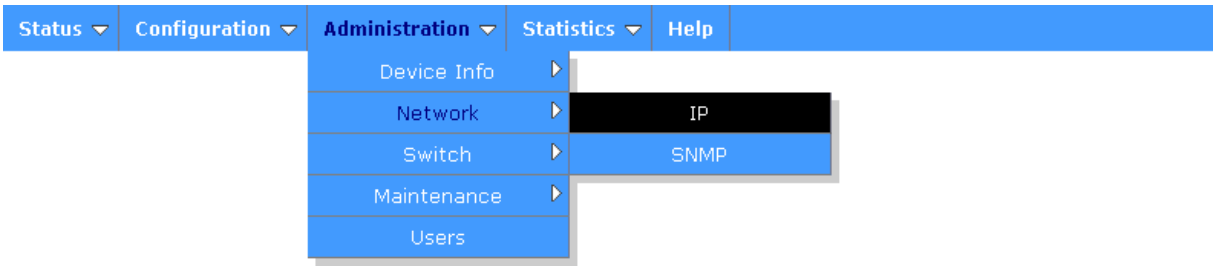
1.3.3 Network Configuration

1) The PC's network configuration must be set with the parameters provided in section 1.2.1 PC Network Configuration.

2) The Rincon should be accessible from your PC at the default IP address provided in section 1.3.1 Default Network Settings unless you have changed the IP address previously. Performed a network ping to verify connectivity to the Rincon.

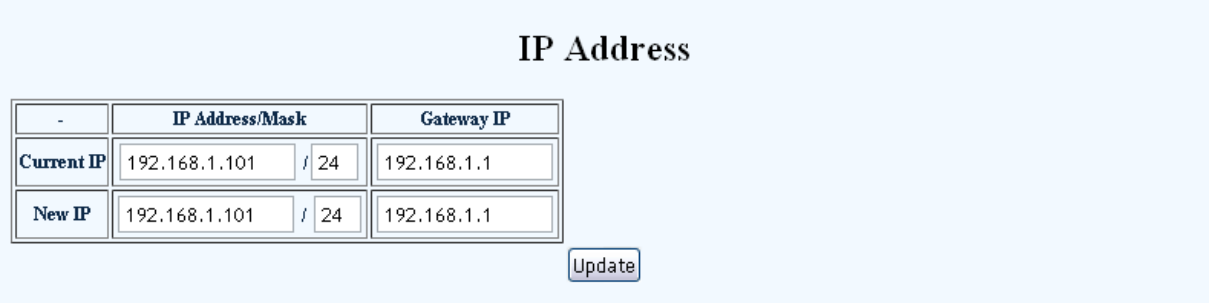
3) Start a web browser and use the Rincon default IP address as the URL.

4) The Web Interface includes a navigation menu at the top, just underneath the banner. In the navigation menu, select: Administration->Network->IP.



5) Log in at the login prompt with the username and password and click OK. The default user name and password are provided in Section 1.3.2 Default User Name & Password.

6) Enter the new IP address, IP net mask, and IP gateway. If you are unsure of the correct items to enter, contact your IT department. Click Update to save the values. Reboot the Rincon (Administration->Maintenance->Reprogramming->Reboot) or cycle power to the unit to apply the changes.



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A note about IP net masks:
The Rincon uses the CIDR method for IP net masks. Example private IP network addresses and the associated net masks are

IPv4 address range	Net mask dotted decimal	Net mask CIDR
10.0.0.0 – 10.255.255.255	255.0.0.0	/8
172.16.0.0 – 172.31.255.255	255.240.0.0	/12
192.168.0.0 – 192.168.255.255	255.255.0.0	/16
192.168.1.0 – 192.168.1.255	255.255.255.0	/24
192.168.1.0 – 192.168.1.63	255.255.255.192	/26
192.168.1.0 – 192.168.1.31	255.255.255.224	/27

7) To verify the new IP address, change the PC's network configuration to be on the same subnet as the new IP address set in the unit. A network ping can be performed to the new address or just point your browser to the new IP address.

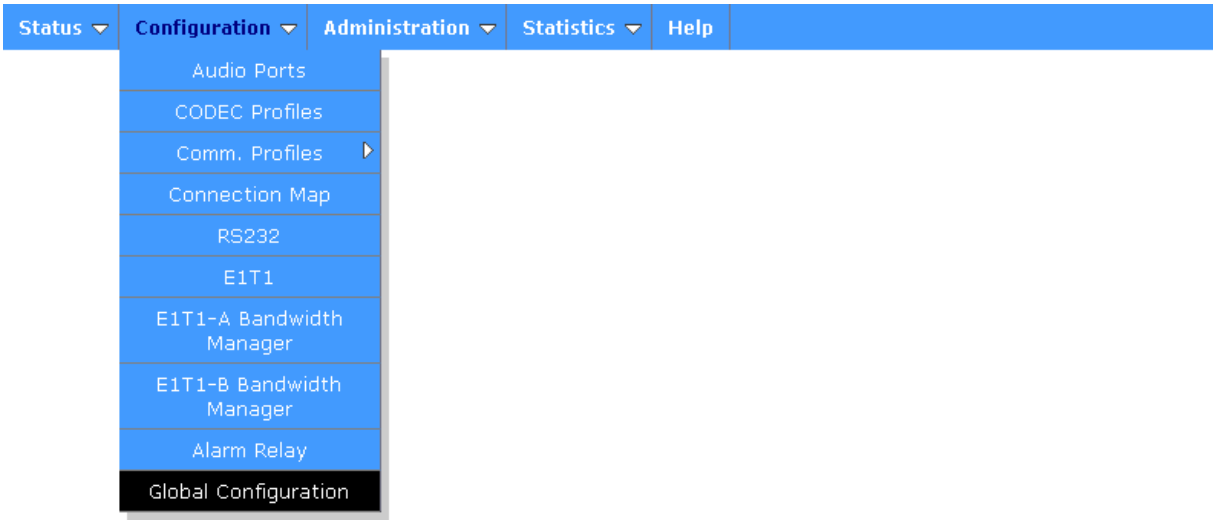
8) To continue using the Web Interface, point the web browser to the new IP address.

See the Rincon User Manual for additional web page details.

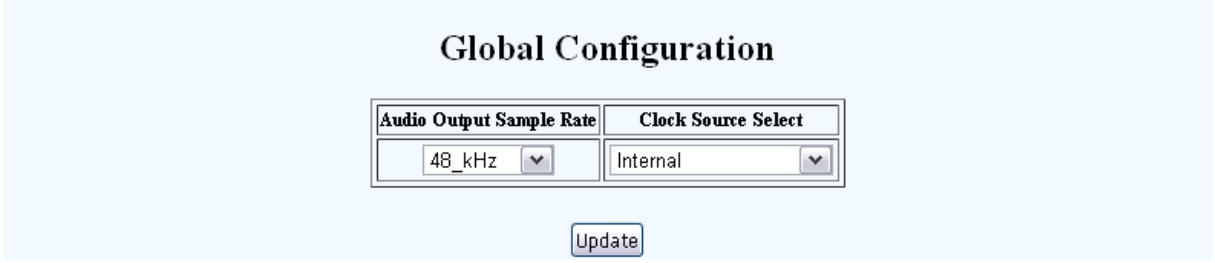
1.3.4 Encoder (Studio) Configuration

1) Set the Global Configuration

Select Configuration->Global Configuration:



Set the Clock Source to "Internal" then click Update:



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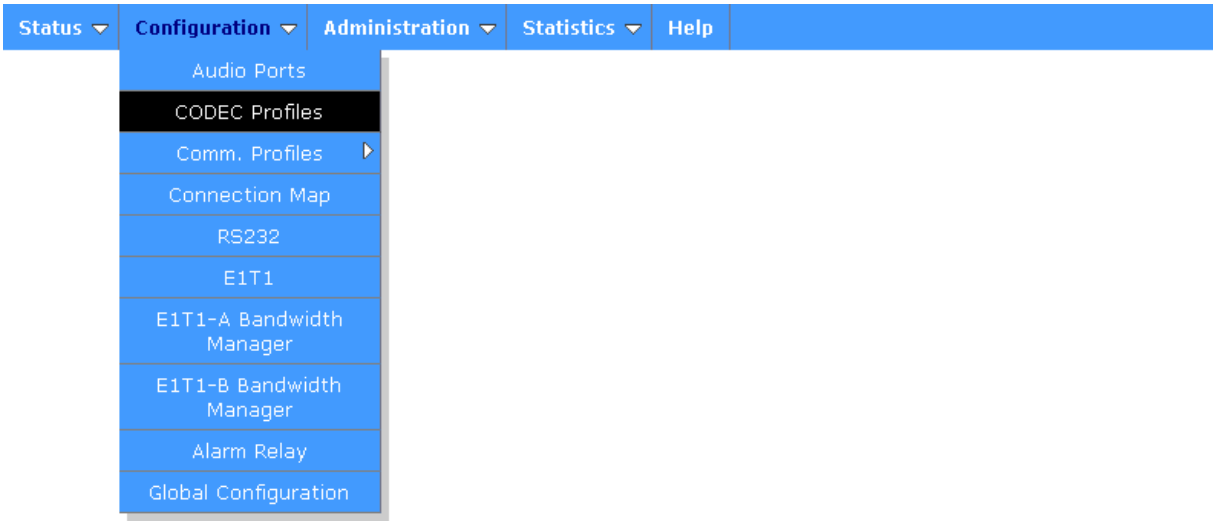
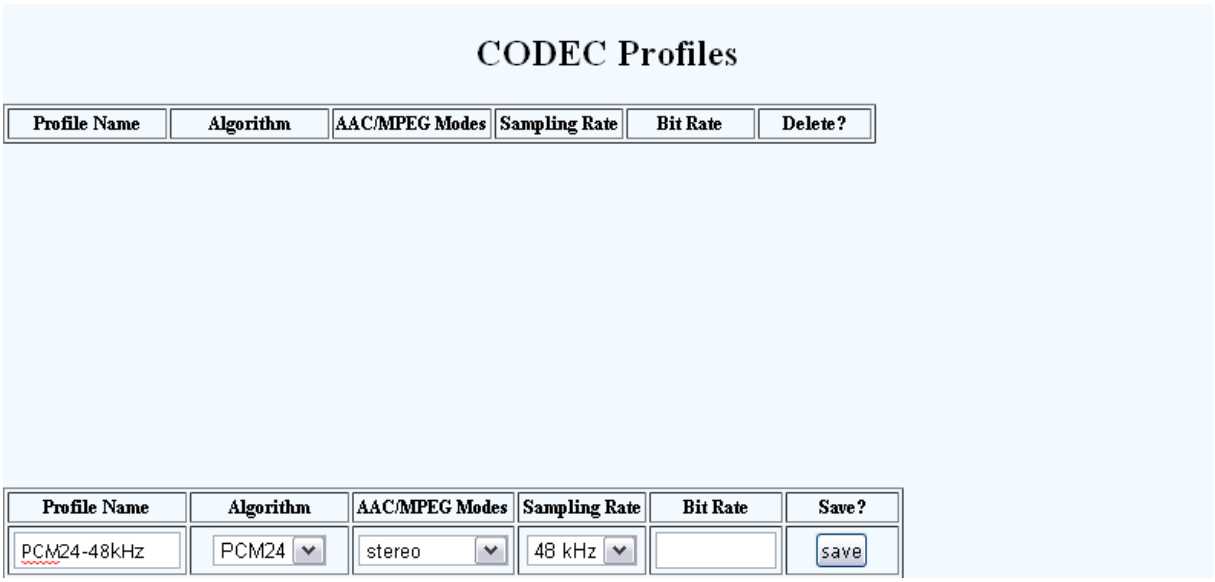
2) Create a CODEC Profile.

Navigate to Configuration->CODEC Profiles:



Enter a Profile Name,
select an Algorithm,
select a Sampling Rate,
enter a Bit Rate in bps (for compressed Algorithms only),
then click save.
After a short while, the profile will show up on the list:



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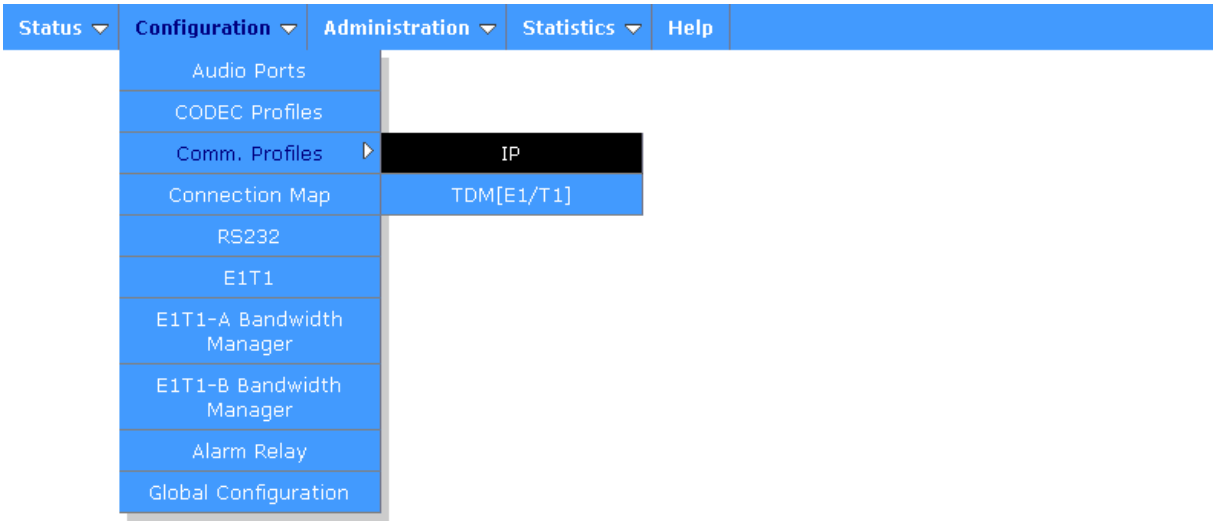
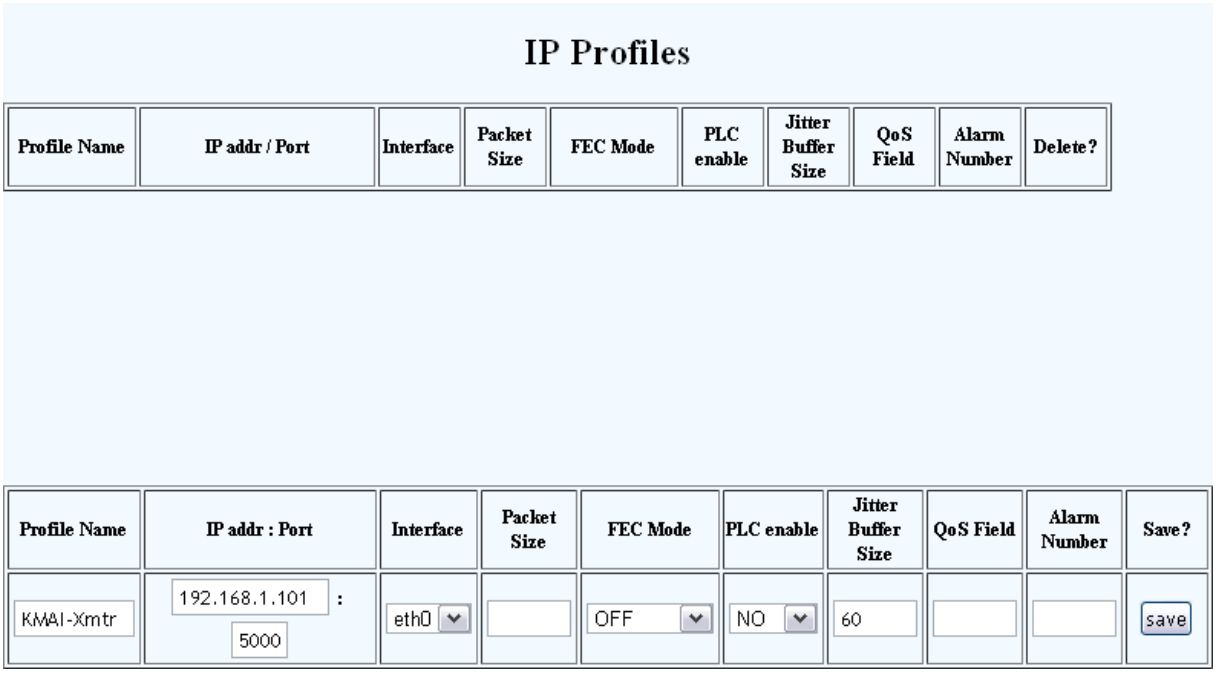
3) Create an IP Communications Profile “Stream”.

Navigate to Configuration->Comm. Profiles->IP:



Enter a Profile Name,
enter the IP Address of the Decoder (Transmitter location),
enter a Port number (“5000” through “5100”, even numbers only),
select the Interface,
enter a Jitter Buffer Size of “60”,
then click save.
After a short while, the profile will show up on the list:



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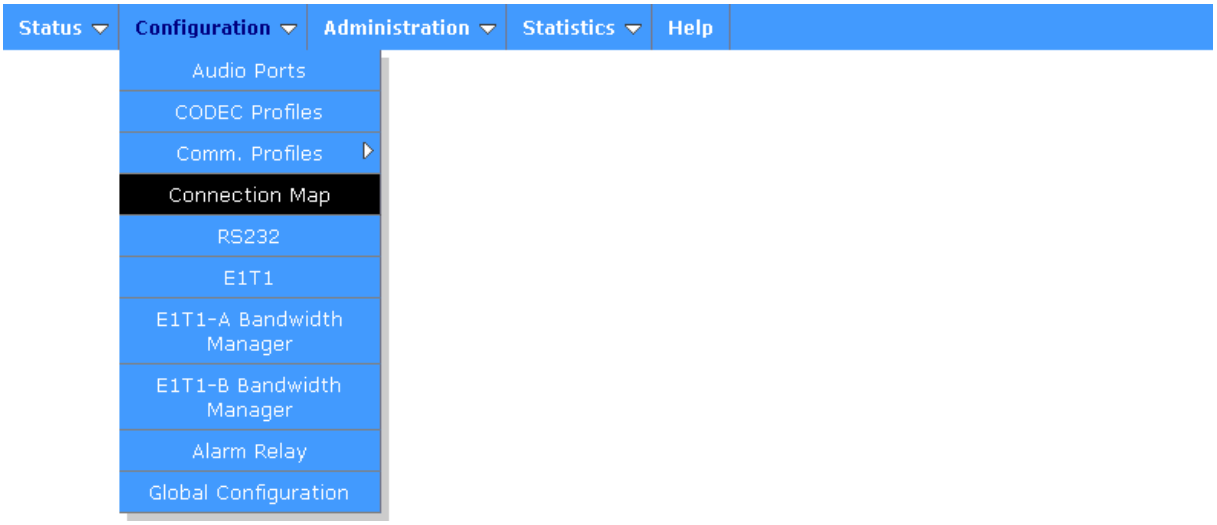
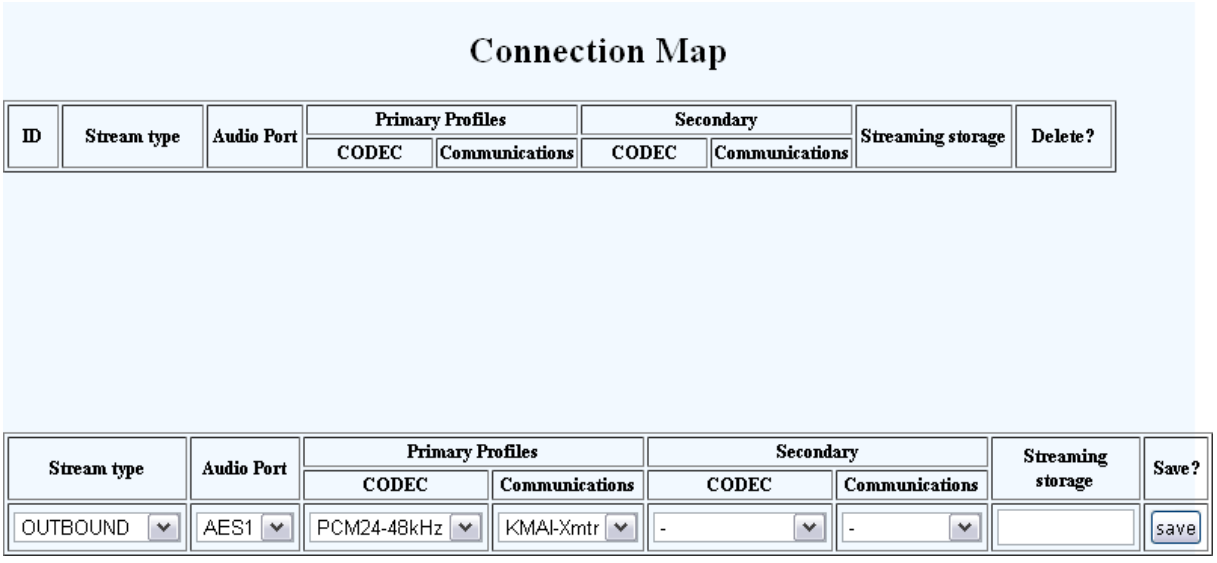
4) Create a Connection Map.

Navigate to Configuration->Connection Map:



Select an OUTBOUND Stream type,
select an Audio Port,
select a CODEC Primary Profile,
select a Communications Primary Profile to the Decoder,
then click save.
After a short while, the profile will show up on the list:



1.3.5 Decoder (Transmitter) Configuration

5) Set the Global Configuration

Select Configuration->Global Configuration:

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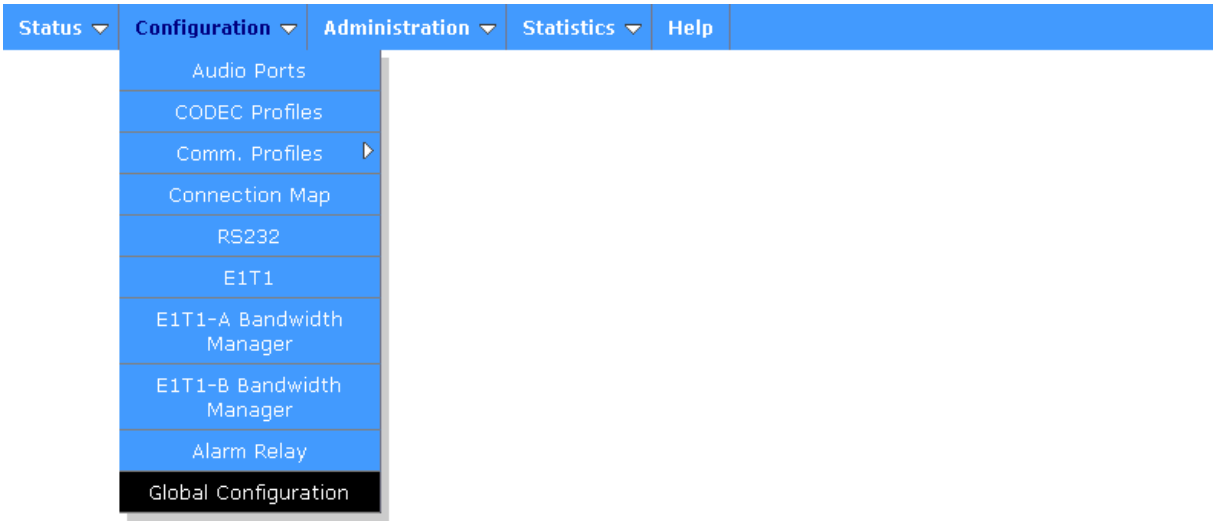
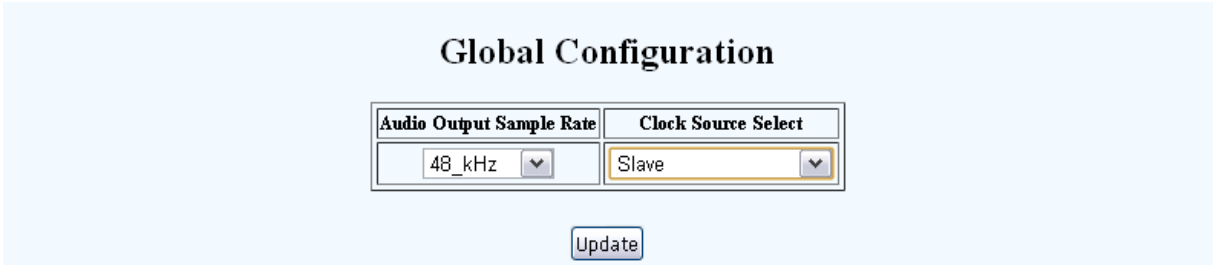
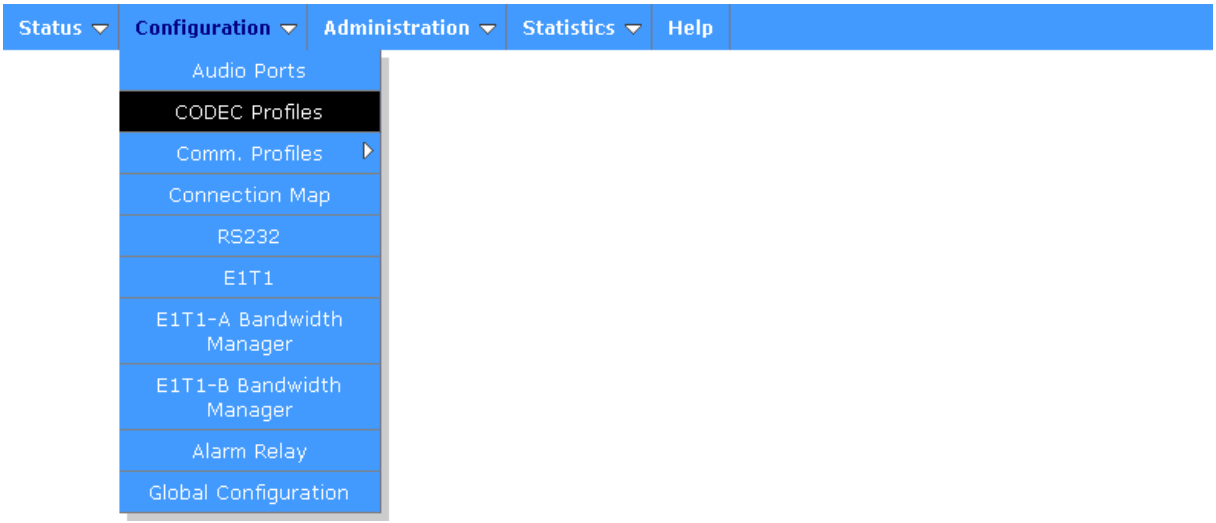


Set the Clock Source to “Slave” then click Update:



6) Create a CODEC Profile.

Navigate to Configuration->CODEC Profiles:



Enter a Profile Name,
select an Algorithm,
select a Sampling Rate,
enter a Bit Rate in bps (for compressed Algorithms only),
then click save.
After a short while, the profile will show up on the list:

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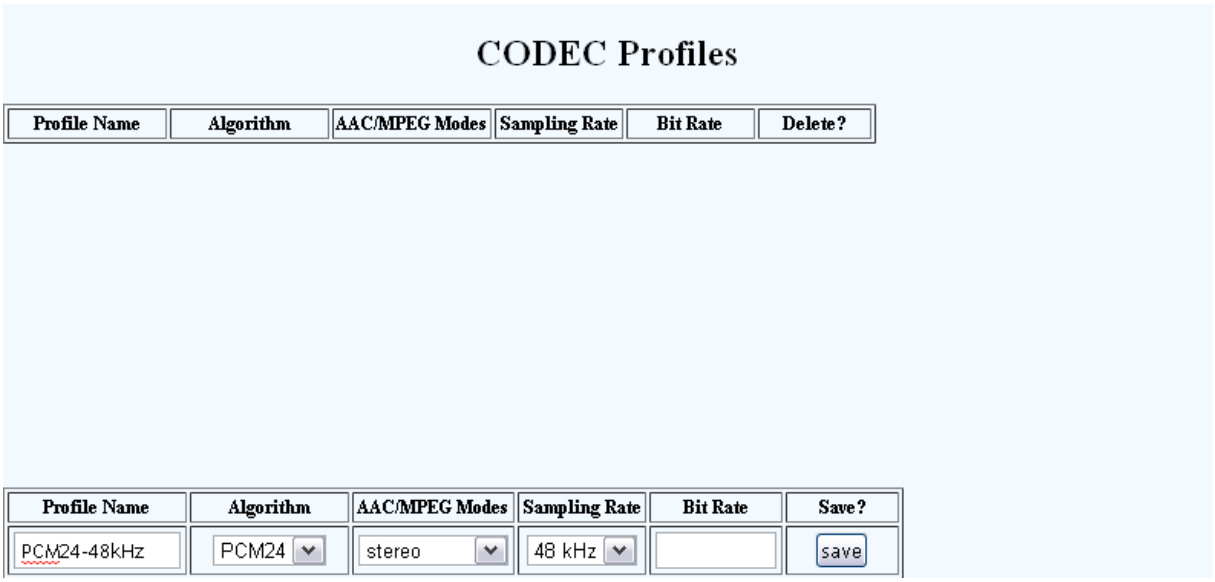
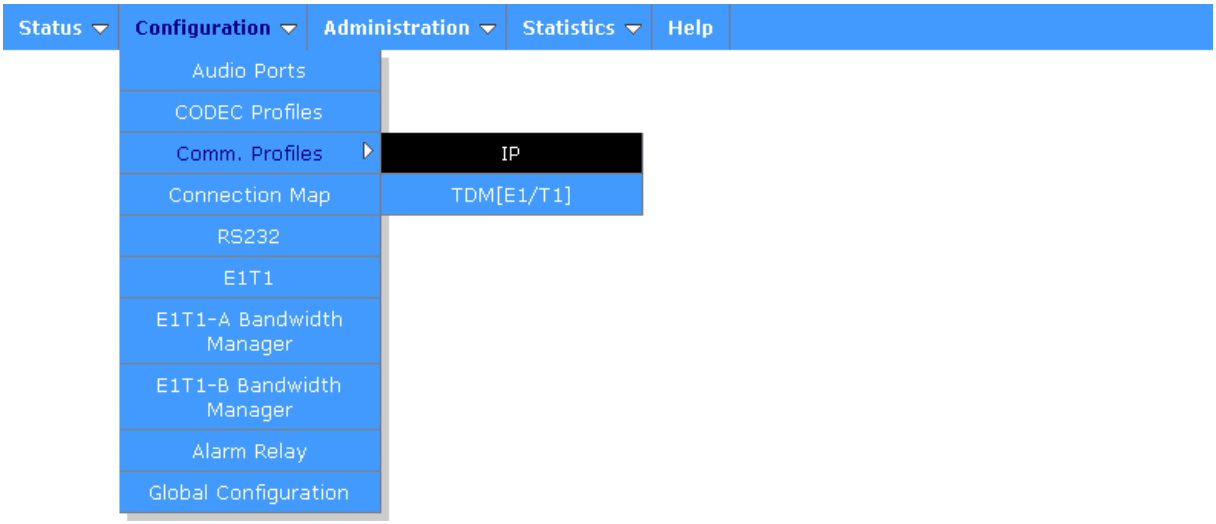


7) Create an IP Communications Profile "Stream".

Navigate to Configuration->Comm. Profiles->IP:



Enter a Profile Name,
enter the IP Address of the Encoder (Studio location),
enter the same Port number as the Encoder,
select the Interface,
enter a Jitter Buffer Size of "60",
then click save
After a short while, the profile will show up on the list:

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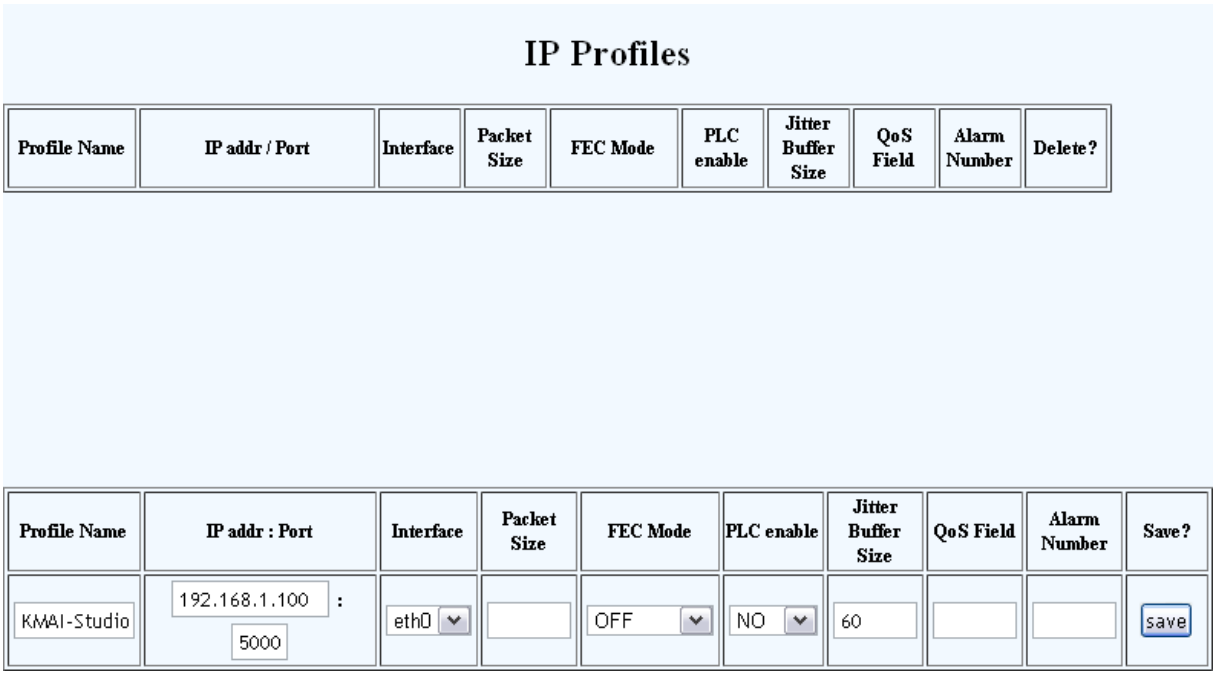
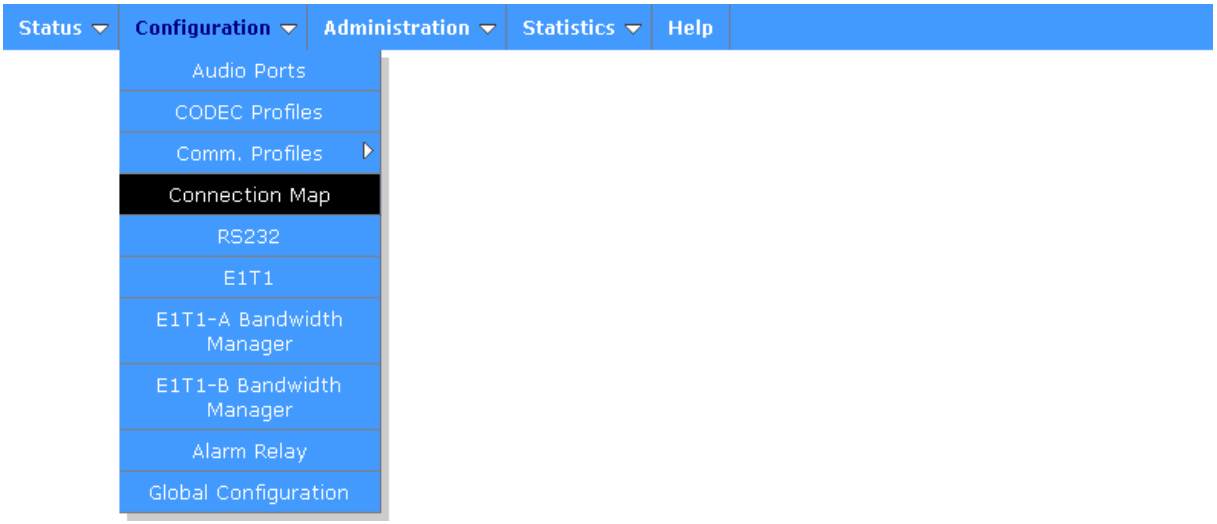


8) Create a Connection Map.

Navigate to Configuration->Connection Map:



Select an INBOUND Stream type,
select an Audio Port,
select a CODEC Primary Profile,
select a Communications Primary Profile from the Encoder,
then click save.
After a short while, the profile will show up on the list:

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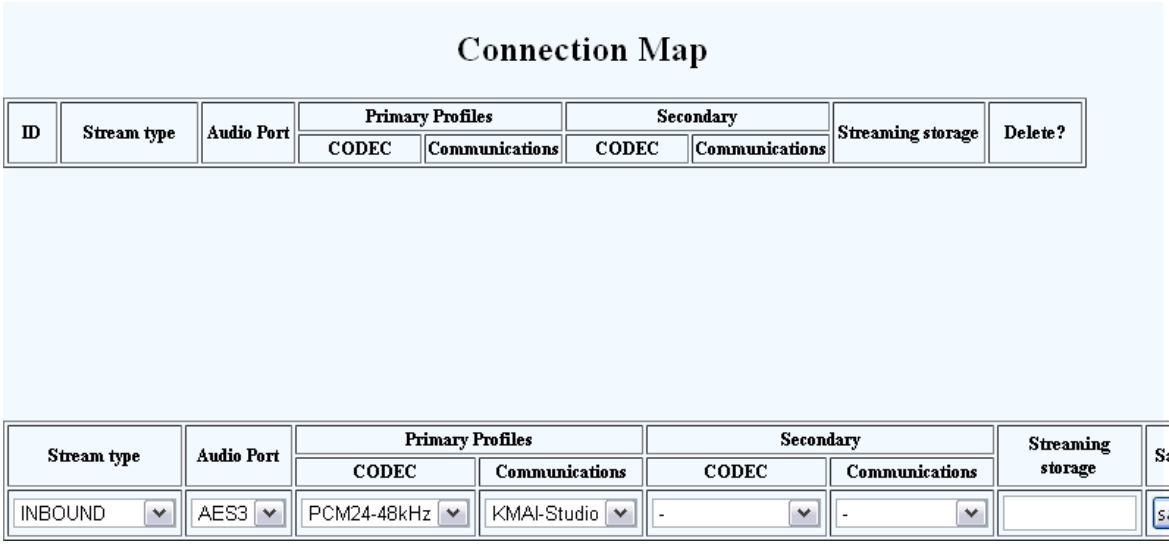

1.3.6 System Bench Test

Reboot the Rincons (Administration->Maintenance->Reprogramming->Reboot) or cycle power to the units. Be sure the Rincons are connected to the same network, either through an Ethernet switch or router, or connected directly back-to-back with an Ethernet cable. Supply digital audio to Encoder side AES1 and check the audio emanating from Decoder side AES3.

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